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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/699,679	10/30/2000	Evan C. Unger	UNGR-1598	8248	
75	90 03/12/2003				
S. Maurice Va	lla	EXAMINER			
	WASHBURN KURTZ	SHARAREH, SHAHNAM J			
	Z & NORRIS LLP				
One Liberty Pla Philadelphia, Pa		ART UNIT	PAPER NUMBER		
 ,	,,		1617		
		•	DATE MAILED: 03/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/699,679	UNGER ET AL.				
Office Action	Summary	Examiner	Art Unit				
		Shahnam Sharareh	1617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
 If NO period for reply is specified at 	HIS COMMUNICATION. e under the provisions of 37 CFR 1.1 ling date of this communication. e is less than thirty (30) days, a replivove, the maximum statutory period varieded period for reply will, by statute than three months after the mailing	36(a). In no event, however, may a re y within the statutory minimum of thirt vill apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed r (30) days will be considered timely. FHS from the mailing date of this communicati ANDONED (35 U.S.C. § 133).	ion.			
1) Responsive to com	munication(s) filed on 20 A	<u> August 2002</u> .					
2a) This action is FINAL	2b)□ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-35 and 5</u>	4-60 is/are pending in the	application.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-35, 54-60 are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is of	pjected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 1	l9 and 120						
13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a)	f the foreign language pro	visional application has be	en received.	,			
Attachment(s)							
Notice of References Cited (PTC 2) Notice of Draftsperson's Patent 3) Information Disclosure Statement	Drawing Review (PTO-948)	5) Notice of I	fummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152)	. •			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Ac	tion Summary	Part of Paper No.	. 20			

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DETAILED ACTION

Amendment file on August 20 2002 has been entered. Claims 1-35, 54-60 are pending. The rejection of prior Office Action is withdrawn in view of Applicant's Arguments. Claims 1-35, 54-60 are subject to a new Restriction/Election Requirement so that the following patentably distinct subgenus groups have been identified.

Accordingly, Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are –O-,
 S, and at R3, R6 are direct bonds,
- II. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are N(R8), or N(R8)-C(=X3) and R3,R6 are direct bonds,
- III. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are C(=X3), C(=X3)-N(R8), and -C(=X3)-N(R8)-C(=X3)-, and X3 is -O- or -S, and R3, R6 are direct bond,
- IV. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are -O-,S, and R3, R6 are alkylenes,
- V. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 areN(R8), or N(R8)-C(=X3) and R3, R6 are alkylenes,
- VI. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are C(=X3), C(=X3)-N(R8), and -C(=X3)-N(R8)-C(=X3)-, and X3 is -O- or -S-, and R3, R6 are alkylenes,

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- VII. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are –O-, S, and R3 is a direct bond and R6 is an alkylene.
- VIII. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are N(R8), or N(R8)-C(=X3) and R3 is a direct bond and R6 is an alkylene,
- IX. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are C(=X3), C(=X3)-N(R8), and -C(=X3)-N(R8)-C(=X3)-, and X3 is -O- or -S, and R3 is a direct bond and R6 is an alkylene.
- X. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are -O-,S, and R3 is an alkylene and R6 is a direct bond,
- XI. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are N(R8), or N(R8)-C(=X3) and R3 is an alkylene and R6 is a direct bond,
- XII. Claims 1-35, 54-60 in part drawn to compounds wherein X1, X2 are C(=X3), C(=X3)-N(R8), and -C(=X3)-N(R8)-C(=X3)-, and X3 is -O- or -S, and R3 is an alkylene and R6 is a direct bond.

The instant claims are directed to Markush-type generic claims, which include a plurality of alternatively usable members, directed to independent and distinct invention. It is well settled patent law that a markush group must contain an immutable structural core responsible for the claimed activity. Applicant fails to provide an immutable central core structure for the proffered claims thereby presenting an improper Markush group for examination. Failure to link the claimed compounds with an immutable core structure results in claims reading on more than one invention, requiring restriction under 35 USC 121. In the instant case, Inventions I-IX are related as mutually exclusive species.

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Accordingly, the members within the instant claims are so unrelated and diverse that a prior art reference anticipating the claim with respect to one of the members would not render the claims obvious under 35 USC 103 with respect to the other member(s). Further, there is no identifiable "fundamental common core structure" that can be attributed to a biological activity. In fact, variation at X1 and X2 modifies the nature of the compound and the scope of search. Each of the above subgenus has a different classification. For example, subgenus (1) classifies in class 514, subclass 714+, whereas subgenus (2) classifies in class 514, subclass 579+, and subgenus (3) classifies in class 514, subclass 557. Accordingly, the generic compound of claim 1 is restricted to patentably distinct subgenus as set forth above.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for one Group I is not required for the other, restriction for examination purposes as indicated is proper.

Claims 1-35, 54-60 are also generic to a plurality of disclosed patentably distinct species comprising R1, R2, R3, R4, (set forth in claims 1-35, 54-60), P (claims 6-10), and T (claims 1, 15-17). Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined and a listing of all claims readable thereon, including any claims subsequently added, even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The submitted Sequence listing also fails to comply with the sequence rules please see attached instructions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

SS

March 10, 2003

RUSSELL TRAVERS
PRIMARY EXAMINER

GROUP 1200

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE		FIRST NAMED APPLICANT		ATTORNEY DOCKET NO.
09/699,679	3/4/03	Unger et al		UNGR-1598	
r			ī	Shahnam Shara	
L			J	1617 DATE MAILE	20

PI ase find below a communication from the EXAMINER in charge of this application

- 1. This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CAR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CAR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.
- 2. Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CAR 1.821 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CAR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CAR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharareh whose telephone number is (703)306-5400. The examiner can normally be reached on Monday-Thursday from 7:30-5:00 pm (Eastern Time) and 7:30-4:00 PM every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Padmanabhan Sreenivasan, can be reached at (703)305-1877. The FAX phone number for group 1600 is (703)308-4242.

An inquiry of a general nature or relating to the status of the application should be directed to the group receptionist whose telephone number is (703)308-0196.